



# Technology Roadmap

# NGST

## DEVELOPMENT

## VALIDATION

## IMPLEMENTATION

Large Cold Mirrors    Wavefront Sensing & Control

**LARGE LIGHTWEIGHT ACTIVE OPTICS**

Cold Deformable Mirrors    Cold Actuators

Primary Mirror Support    Secondary Mirror Support

**DEPLOYABLE & INFLATABLE STRUCTURES**

Sunshade    Thermal Isolation Truss

Visible/NIR Detectors    Mid-IR Detectors

**HIGH SENSITIVITY SCIENCE INSTRUMENTS**

Vibrationless Cryocoolers

Adaptive Scheduling

Pointing/Fine Guidance

**AUTONOMOUS OPERATIONS**

Fault Detection/Diagnosis/Correction

Vibration Control

**INTEGRATED MODELING**

Optical

Mechanical

Thermal

Control

Science Data Products

98

00

02

fig 083

OTA

Science  
Instruments

Ground &  
Flight Operations

